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Advanced Life Support - NASA Specialized Center
of Research and Training (ALS-NSCORT)

8-4-2005

ALS Manager's Telecon for June/July 2005

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ALS MANAGER'S TELECON FOR JUNE/JULY 2005 8/4/05

6/1-6/3

- Julia Hains-Allen conducted a workshop for 25 teachers on Mission To Mars in Colorado Springs

6/20-23

- ALS/NSCORT Education team conducted a workshop for 20 teachers on Mission To Mars in Ft. Wayne, IN

6/21-22

- June 21-22 Jeff Martin conducted a workshop for 60 International Baccalaureate teachers worldwide in Tampa Florida [on Equivalent System Mass Analysis of Plant Growth/Exploration of Life Science Systems](#).

6/24

- The ALS NSCORT Center-wide Meeting:

Workshop Date and Location:

June 24, 2005 in the Wright Forestry Conference Center @ Purdue

Workshop Objective:

Re-emphasize to the Center members about the criteria required for our NSCORT to be a success:

1. Conducting research that heads in the right direction
2. Doing the right things
3. Doing the right things well

Communicate "ALS Research Legends: Myths or Truths" to stretch the student's and PI's thinking in potential research collaboration.

Communicate the plan to initiate the NSCORT Trace Contaminant Analysis Center.

Present the ALS NSCORT Roadmap "strawman" and construct a deliverable for future management and communications:

As an ALS NSCORT, we are halfway into our five-year mission. The objective for our roadmap is for each of us to open-mindedly look past tomorrow, next week, and next month and set course for your cross-disciplinary research for the next two and a half

years; begin today with what you would like your research to achieve by November 30, 2007. With the Center's goals as a focal point, entertain collaborative research possibilities that may not have been considered until today. In turn, take what is known, and as a collective Center, through use of the roadmapping template, document milestones and relationships that will lead to the achievement of ALS and NSCORT research goals.

Workshop Conclusions:

Well Received: Success strategy and tactics that stressed safe, synergistic, ESM friendly life-support research that emphasized quantitative measurement and optimization of variable inputs and outputs using bioprocess technologies, with documentation of research findings in peer-reviewed publications.

Well Received: ALS Legends: Myths or Truths? This presentation engaged the members and spurred much discussion.

Due to upfront planning, clear expectations, training and communicated due dates, the roadmap construction from the morning "strawman" gave to the Center a valuable planning tool and a valuable deliverable that will demonstrate to our sponsor what we expect to deliver at the end of our five year grant.

6/27-6/29

- ALS/NSCORT Education team conducted a workshop for 20 teachers on Mission To Mars II workshop in Brownsburg, IN

6/27

- Julia Hains-Allen submitted two Notice of Intent (NOI) to a call for proposals for FY06 from NASA ESMD Education.
 - First NOI - Equivalent System Mass Analysis of Plant Growth - Renamed: Exploration of Life Science Systems was submitted for \$181,440.00 in collaboration with Kennedy Space Center. This NOI included ALS/NSCORT's new collaboration with International Baccalaureate Schools worldwide. With this funding, we will place plant growth chambers and have high school students using ESM analysis worldwide.
 - Second NOI - Mission To Mars was submitted in collaboration with Johnson Space Center for \$ 449,000.00.
 - This NOI trains teachers nationwide on Mission To Mars along with a concentrated collaboration with 4-H.

7/11

- Jim Russell, from the University of Colorado has accepted our offer to join the Systems Group as a Post-Doctoral Research Associate. His start date is September 1, 2005.

7/11 – 7/14

- ICES, Rome Italy: Sixteen representatives (16/42 total members = 38%) from the ALS NSCORT attended the conference in July presenting fourteen papers out of fifteen projects (14 project papers/15 total projects = 93% coverage).
- One PI presided as a session moderator.

7/15-7/18

Presentations at IFT

By Lisa Mauer and Grad Students

Effects of gamma-radiation on the reducing power of antioxidants.

99E-4 Nonthermal Processing General II

Wednesday AM Room Hall I-2

Effects of gamma-radiation on lipid oxidation and fatty acid composition.

99E-3 Nonthermal Processing General II

Wednesday AM Room Hall I-2

Food packaging waste scenarios for a mission to Mars.

54D-26 Food Packaging General

Monday PM Room Hall I-2

Characterizing effects of Gamma Radiation on Wheat Proteins and Starches using Atomic Force Microscopy.

99E-17 Nonthermal Processing General II

Wednesday AM Room Hall I-2

7/18 – 7/21

- Julia Hains – Allen: Workshop at Purdue over 30 teachers from Key Learning Communities were taught the modules of the Mission to Mars.

7/25

- Dave Kotterman: Presented “Exploring: How are we to live on the Moon, Mars and Beyond” to two-hundred scouts at Cary Camp, Lafayette, Indiana.

7/26

- Executive Committee Meeting held and the following topics covered:

Report on Center-wide Meetings

Review ALS NSCORT Roadmap Development

Report of Annual Report Deliverables

1. Annual Report to NASA 9.30.2005

2. NASA Taskbook 12.30.2005

Report of Center Financial Status